1851MNRAS..11..205R

III. Signore Trattenero, of Padova, from the Naples Observations of July 29, Aug. 10, and the Padova Observation of Aug. 21.

	° ′ ″	
M	240 36 39·9	1851, July 30, 0h Green. M.T.
ϖ	56 23 14·4	Mean Equinox,
☊	293 42 6·3	July 30.
i	12 1 34·2	
ϕ	7 13 54·3	
Log a	0·393714	
μ	910″·82	

IV. By Mr. G. Rümker, from the Naples Observation of July 29 and the Hamburg Observations of Aug. 29 and Sept. 27.

	° ′ ″	
M	293 49 51·49	Oct. 1, 0h G.M.T. 1851.
ϖ	27 35 37·57	M. Eq. Jan. 0,
☊	293 52 54·76	1851.
i	11 43 42·75	
ϕ	10 51 34·29	
e	0·1884017	
Log a	0·4228496	
Log μ	2·9157322	

These elements represent the middle observations, thus:—

Computation—Observation = { −0″·07 in Longitude.
0·00 in Latitude.

Ephemeris.

Computed from the above Elements by M. G. Rümker.

For 9d 36m Greenwich M. Time.

1851.	R.A.	Decl.	Log Δ.	1851.	R.A.	Decl.	Log Δ.
	h m s	° ′			h m s	° ′	
Oct. 1	18 29 22	−21 53·9	0·37080	Oct. 16	18 46 21	−20 59·9	
2	30 23	50·5		17	47 36	56·1	0·40207
3	31 25	47·0		18	48 53	52·3	
4	32 28	43·5		19	50 10	48·3	
5	33 32	40·0	0·37893	20	51 28	44·4	
6	34 37	36·5		21	52 47	40·4	0·40935
7	35 43	32·9		22	54 6	36·4	
8	36 50	29·4		23	55 27	32·2	
9	37 57	25·8	0·38684	24	56 49	28·1	
10	39 6	22·2		25	58 11	24·0	0·41637
11	40 16	18·5		26	18 59 34	19·8	
12	41 27	14·9		27	19 0 58	15·6	
13	42 39	11·1	0·39456	28	2 22	11·3	
14	43 52	7·4		29	3 47	7·0	0·42314
ct. 15	18 45 6	−21 3·6		Oct. 30	19 5 13	−20 2·5	

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1851MNRAS..11..206.

1851.	R.A. h m s	Decl. ° ′	Log Δ.
Oct. 31	19 6 40	−19 58·1	
Nov. 1	8 7	53·6	
2	9 34	49·1	0·42968
3	11 3	44·5	
4	12 32	39·8	
5	14 2	35·1	
6	15 32	30·3	0·43595
7	17 3	25·5	
8	18 35	20·5	
9	20 7	15·5	
10	21 40	10·5	0·44197
11	23 14	5·3	
12	24 48	−19 0·1	
13	26 22	−18 54·9	
14	27 57	49·6	0·44771
15	29 32	44·2	
16	31 7	38·7	
17	32 44	33·2	
18	34 21	27·5	0·45320
Nov. 19	19 35 58	−18 21·8	
Nov. 20	19 37 35	−18 16·1	
21	39 13	10·2	
22	40 53	−18 4·3	0·45844
23	42 32	−17 58·3	
24	44 12	52·2	
25	45 52	46·2	
26	47 32	40·0	0·46340
27	49 13	33·8	
28	50 54	27·5	
29	52 35	21·0	
30	54 17	14·5	0·46811
Dec. 1	56 0	7·9	
2	57 43	−17 1·2	
3	19 59 26	−16 54·4	
4	20 1 9	47·5	0·47256
5	2 52	40·6	
6	4 36	33·6	
7	6 21	26·5	
8	20 8 6	−16 19·4	0·47675

Earlier Elements and Ephemerides by M. G. Rümker are omitted.

IRENE.

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1851.	Green. M.T. h m s	R.A. h m s	Log $\frac{p}{P}$	N.P.D. ° ′ ″	Log $\frac{q}{P}$	Star of Comp.
Aug. 1	9 57 7·6	15 40 41·53	+8·439	108 15 22·2	−9·9543	B.A.C. 5176
	10 13 7·5	41·71	+8·472	25·7	−9·9486	— —

The following is the assumed *mean* place of the star of comparison for 1851·0, derived from the Greenwich 12-year Catalogue:—

	R.A. h m s	N.P.D. ° ′ ″
B.A.C. 5176	15 33 22·20	109 11 30·54

HAMBURG. (M. Rümker.)

1851.	Hamburg M.T. h m s	App. R.A. ° ′ ″	App. Dec. ° ′ ″
July 22	10 41 5·0	233 53 20·0	−17 18 43·2
24	10 30 29·0	234 5 47·6	−17 29 44·5

Not corrected for parallax.

Mean Places for January 0·1851 of the two Stars with which the Planet was compared both days.

R.A. h m s	Dec. ° ′ ″
15 38 49·37	−17 37 17·3
15 41 20·75	−17 26 32·4

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